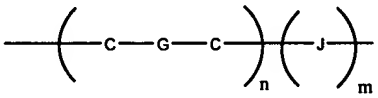
-CH=SiH-, -CR=SiH-, -CH=SiR-, -CR=SiR-, wherein each R is a substitution group independently selected from the group consisting of alkyl, alcohol, aromatic, amino, amido, nitro, ether, ester, aldehyde, sulfonyl, silicon moiety, halogen, sulfur containing moiety, phosphorus containing moiety, and ethylene glycol; and

wherein when g is zero, e is 1 and D is [preferably] carbonyl, or a heteroatom moiety, wherein the heteroatom is selected from oxygen, sulfur, nitrogen or phosphorus.

51. (Amended) A composition according to claim 49 wherein said conductive oligomer has the formula:



wherein

n is an integer from 1 to 50;

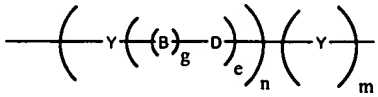
m is 0 or 1;

C is carbon;

J is carbonyl or a heteroatom moiety, wherein the heteroatom is selected from the group consisting of nitrogen, silicon, phosphorus, sulfur; and

each G is a bond independently selected from single, double or triple bonds, wherein when G is a single bond, two R groups are attached to each C, and when G is a double bond, one R group is attached to each C, wherein each R is a substitution group independently selected from the group consisting of hydrogen, alkyl, alcohol, aromatic, amino, amido, nitro, ether, ester, aldehyde, sulfonyl, silicon moiety, halogen, sulfur containing moiety, phosphorus containing moiety, and ethylene glycol.

55. (Amended) A composition according to claim 52 wherein said conductive oligomer has the formula:



wherein

Y is an aromatic group;

n is an integer from 1 to 50;

g is either 1 or zero;

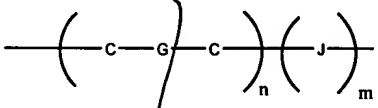
e is an integer from zero to 10;and

m is zero or 1;

wherein when g is 1, each B-D is a conjugated bond[;]independently selected from -C≡C-, -CH=CH-, -CR=CR-, -CH=CR-, -CR=CH-, -NH-CO-, -NR-CO-, -CO-NH-, -CO-NR-, -N=N-, -CO-O-, -O-CO-, -CS-O-, -O-CS-, -CH=N-, -CR=N-, -N=CH- and -N=CR-, -SiH=SiH-,-SiR=SiH-, -SiR=SiH-, -SiR=SiR-, -SiH=CH-, -SiR=CH-, -SiH=CR-, -SiR=CR-, -CH=SiH-, -CR=SiH-, -CH=SiR-, -CR=SiR-, wherein each R is a substitution group independently selected from the group consisting of alkyl, alcohol, aromatic, amino, amido, nitro, ether, ester, aldehyde, sulfonyl, silicon moiety, halogen, sulfur containing moiety, phosphorus containing moiety, and ethylene glycol; and

wherein when g is zero, e is 1 and D is [preferably] carbonyl, or a heteroatom moiety, wherein the heteroatom is selected from oxygen, sulfur, nitrogen or phosphorus.

56. (Amended) A composition according to claim 52 wherein said conductive oligomer has the formula:



wherein

n is an integer from 1 to 50;

m is 0 or 1;

C is carbon;

J is carbonyl or a heteroatom moiety, wherein the heteroatom is selected from the group consisting of nitrogen, silicon, phosphorus, sulfur; and

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